



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPENDIX A

RECEIVED

APR 26 1990

PATENT DEPARTMENT
CAROL HOLDEN

TO: KARL F. JORDA
444, SAW MILL RIVER RD.
ARDSLEY, NY 10502

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS
AVAILABLE AT THE U.S. PATENT AND TRADEMARK OFFICE ON THE REEL AND FRAME
- NUMBER REFERENCED BELOW. A DIGEST OF THE DOCUMENT HAS ALSO BEEN MADE -
AND APPEARS IN THE OFFICE'S RECORDS AS SHOWN:

ASSIGNOR: 001 JAEGLI, KNUT A.
ASSIGNOR: 002 WIDLER, LEO

DOC DATE: 02/22/89
DOC DATE: 02/22/89

RECORDATION DATE: 02/14/90 NUMBER OF PAGES 001 REEL/FRAME 5228/0929

DIGEST: ASSIGNMENT OF ASSIGNORS INTEREST

ASSIGNEE: 501 CIBA-GEIGY CORPORATION, 444 SAW MILL RIVER ROAD, ARDSLEY,
NEW YORK 10502 A CORP. OF NY

SERIAL NUMBER 7-315962 FILING DATE 02/27/89
PATENT NUMBER ISSUE DATE 00/00/00

TITLE OF INVENTION: SUBSTITUTED ALKANEDIPHOSPHONIC ACIDS AND PHA
RMACEUTICAL USE

INVENTOR: 001 JAEGLI, KNUT A.
- INVENTOR: 002 WIDLER, LEO

4-16180/-/Cip

Copy Sent to Basle
5-3-90 S.C.

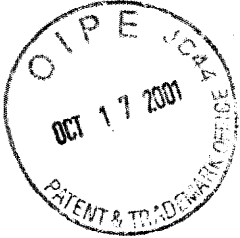
CIBA-GEIGY Corporation
Ardsley, New York 10502-2699
Telephone 914 347 4700

CIBA-GEIGY *D*

APPENDIX A



Commissioner of Patents and Trademarks
Washington, D.C. 20231



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APR 26 1990

PATENT DEPARTMENT
CAROL HOLDEN

ASSIGNMENT BRANCH

90 FEB 28 PM 9:00

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RE: U.S. Patent Application

Serial No.: 315,962

Filed: February 27, 1989

Case No.: 4-16180/-/CIP

ASSIGNMENT TRANSMITTAL

Sir:

I CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO COMMISSIONER OF PATENTS AND TRADEMARKS, WASHINGTON, D.C. 20231. ON February 8, 1990.

Enclosed, for recordation is the Assignment in this case. The patent should be issued to:

CIBA-GEIGY Corporation
444 Saw Mill River Road
Ardsley, New York 10502

The \$8.00 Recordation Fee should be charged to Deposit Account No.: 07-0590.

A triplicate copy of this letter is enclosed herewith for charging purposes.

91492308

Very truly yours,

CIBA-GEIGY Corporation

6 11261 02/27/90 07315962

07-0590 110 518

8.00CH

JoAnn Villamizar
JoAnn Villamizar
Reg.No. 30,598
Patent Department

APPENDIX A

US Case 4-16180/--/CIP

ASSIGNMENT

X (We) Knut A. Jaeggi of 4054 Basle, Switzerland and
Leo Widler of 4142 Münchenstein, Switzerland



RECORDED
PATENT AND TRADEMARK
OFFICE

FEB 14 1990

for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, do hereby sell and assign to CIBA-GEIGY Corporation, a New York corporation, of 444 Saw Mill River Road, Ardsley, New York, 10502, U.S.A., its successors, assigns and legal representatives, all 專利 (our) right, title and interest, in and for the United States of America, in and to the

Novel substituted alkanediphosphonic acids

invented by 專利 (us) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, reissues, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by the said CIBA-GEIGY Corporation, its successors, assigns or other legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by 專利 (us) if this assignment and sale had not been made;

And X (we) hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the said CIBA-GEIGY Corporation.

Signed on 22.2.89

Knut A. Jaeggi

Leo Widler

REEL 5228 FRAME 929

RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

PATENTS ONLY

APPENDIX A

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Ciba-Geigy Corporation

2. Name and address of receiving party(ies)

Name: Novartis Corporation

Internal Address: _____

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☐ Assignment ☐ Merger
☐ Security Agreement ☒ Change of Name
☐ Other _____

Execution Date: _____

Street Address: 608 Fifth Avenue

City: New York State: NY ZIP: 10020

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

B. Patent No.(s)

D352,107 4,409,212 4,424,221 4,444,775

Additional numbers attached? ☒ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Thomas Hoxie

Internal Address: Novartis Corporation

Patent and Trademark Dept.

Street Address: 564 Morris Avenue

City: Summit State: NJ ZIP: 07901-1027

6. Total number of applications and patents involved: 337

7. Total fee (37 CFR 3.41) \$ 13,480

- ☐ Enclosed
☒ Authorized to be charged to deposit account and any other additional fees required.

8. Deposit account number:

19-0134 (in the name of Novartis Corporation)

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Melvyn M. Kassenoff

Name of Person Signing
Reg. No. 26,389

Melvyn M. Kassenoff
Signature

August 18, 2000

Date

☐ Certificate of mailing on reverse side

Total number of pages including cover sheet, attachments, and document: 5

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

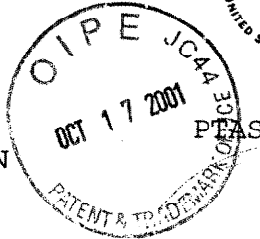
APPENDIX A



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Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

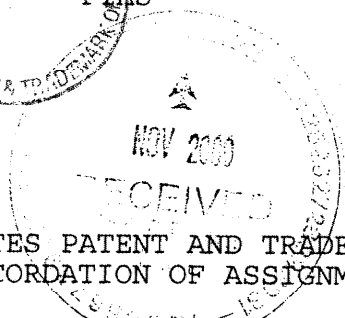
NOVEMBER 14, 2000

NOVARTIS CORPORATION
THOMAS HOXIE
564 MORRIS AVENUE
SUMMIT, NJ 07901-1027



101484946A

MMK



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/22/2000

REEL/FRAME: 011089/0648
NUMBER OF PAGES: 5

BRIEF: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

CIBA-GEIGY CORPORATION

DOC DATE: 06/12/1997

ASSIGNEE:

NOVARTIS CORPORATION
608 FIFTH AVENUE
NEW YORK, NEW YORK 10020

SERIAL NUMBER: 29002441
PATENT NUMBER: D352107

FILING DATE: 12/10/1992
ISSUE DATE: 11/01/1994

SERIAL NUMBER: 06366792
PATENT NUMBER: 4409212

FILING DATE: 04/09/1982
ISSUE DATE: 10/11/1983

SERIAL NUMBER: 06426424
PATENT NUMBER: 4424221

FILING DATE: 09/28/1982
ISSUE DATE: 01/03/1984

SERIAL NUMBER: 06382972
PATENT NUMBER: 4444775

FILING DATE: 06/01/1982
ISSUE DATE: 04/24/1984

APPENDIX A

011089/0648 PAGE 8



UNITED STATES DEPARTMENT OF COMMERCE

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OF PATENTS AND TRADEMARKS

SERIAL NUMBER: 06918584
PATENT NUMBER: 4697020

FILING DATE: 03/09/1986
ISSUE DATE: 09/29/1987

SERIAL NUMBER: 06842337
PATENT NUMBER: 4729892

FILING DATE: 03/21/1986
ISSUE DATE: 03/08/1988

SERIAL NUMBER: 06895979
PATENT NUMBER: 4778809

FILING DATE: 08/13/1986
ISSUE DATE: 10/18/1988

SERIAL NUMBER: 07156770
PATENT NUMBER: 4784808

FILING DATE: 02/18/1988
ISSUE DATE: 11/15/1988

SERIAL NUMBER: 07059898
PATENT NUMBER: 4804661

FILING DATE: 06/09/1987
ISSUE DATE: 02/14/1989

SERIAL NUMBER: 07080240
PATENT NUMBER: 4839379

FILING DATE: 07/28/1987
ISSUE DATE: 06/13/1989

SERIAL NUMBER: 07185205
PATENT NUMBER: 4857660

FILING DATE: 04/22/1988
ISSUE DATE: 08/15/1989

SERIAL NUMBER: 07229189
PATENT NUMBER: 4873086

FILING DATE: 08/08/1988
ISSUE DATE: 10/10/1989

SERIAL NUMBER: 07212028
PATENT NUMBER: 4897486

FILING DATE: 06/23/1988
ISSUE DATE: 01/30/1990

SERIAL NUMBER: 07317387
PATENT NUMBER: 4918097

FILING DATE: 03/01/1989
ISSUE DATE: 04/17/1990

SERIAL NUMBER: 07315962
PATENT NUMBER: 4939130

FILING DATE: 02/27/1989
ISSUE DATE: 07/03/1990

SERIAL NUMBER: 07232266
PATENT NUMBER: 4965074

FILING DATE: 08/15/1988
ISSUE DATE: 10/23/1990

SERIAL NUMBER: 07145432
PATENT NUMBER: 4971981

FILING DATE: 01/19/1988
ISSUE DATE: 11/20/1990

SERIAL NUMBER: 07432297
PATENT NUMBER: 4978677

FILING DATE: 11/06/1989
ISSUE DATE: 12/18/1990

SERIAL NUMBER: 07242833
PATENT NUMBER: 4996058

FILING DATE: 09/12/1988
ISSUE DATE: 02/26/1991

SERIAL NUMBER: 07367163
PATENT NUMBER: 5026841

FILING DATE: 06/16/1989
ISSUE DATE: 06/25/1991

SERIAL NUMBER: 07491145
PATENT NUMBER: 5064761

FILING DATE: 03/09/1990
ISSUE DATE: 11/12/1991

SERIAL NUMBER: 07510501
PATENT NUMBER: 5071861

FILING DATE: 04/18/1990
ISSUE DATE: 12/10/1991